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GenCore version 5.1.6
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OM protein - protein search, using sw model

November 6, 2004, 19:35:16; Search time 21.9375 Seconds (without alignments) 39.474 Million cell updates/sec Run on:

US-10-618-644-4 58 1 IPPGVPYWT 9 Title: Perfect score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

283416 seqs, 96216763 residues Searched:

283416 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

PIR_79:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES Re

	Description		glycinin G4 precur		α,		legumin B - fava b		glycinin chain A5A			ш		legumin B LegJ pre	glycinin G5 precur	hypothetical prote	probable sodium-tr	NADH (ubiquinone)	probable sodium-tr	probable NADH (ubi	fibroblast growth	keratinocyte growt	hypothetical prote	probable transcrip		hypothetical prote		hypothetical prote	hydrogenase-1 oper	rnfD protein homol
	ΩI	JA0152	S11004	S20946	S54802	T12140	S37241	T06453	FWSYGS	JC2097	A24942	S44268	S26688	800336	FWSYG3	T40893	E72078	A86544	B81690 ,	C71535	S51635	A38429	F72722	D95382	T37274	T25810	AG0243	AB1880	AF0676	F64136
	DB						N			7	•	7	•	0	•	•	7	0	7	7	7	•	7	•	7	•	•	0	7	7
	Query Match Length DB	212	260	562	563	136	564	995	295	290	484	485	200	503	516	168	503	503	503	503	705	707	180	299	379	2338	156	311	353	358
40	Query Match	100.0	100.0	100.0	100.0	98.3	98.3	98.3	89.7	84.5	84.5	84.5	84.5	84.5	85.8	74.1	72.4	72.4	72.4	72.4	72.4	72.4	70.7	70.7	70.7	70.7	69.0	69.0	69.0	0.69
	Ü	58	58	28	58	57	57	57	52	49	49	49	49	49	48	43	42	42	42	42	42	42	41	41	41	41	40	40	40	40
	esult No.	1	7	ю	4	S	ø	7	80	σ	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	59

probable pyridine	carbonate denydrat	legumin storage pr	legumin storage pr	legumin storage pr	glycosyltransferas	glycosyl transfera	Wiskott-Aldrich sy	gluconate dehydrog	alpha-xylosidase (transporter, AcrB/	hypothetical prote	hypothetical prote	probable serine-ty	hemocyanin G-type
T36209	A22962	S07577	807578	807576	AF2460	S51767	A55197	H83362	D90483	T35389	D82436	T01916	T08196	T18968	T30939
~	~	~	~	~	N	~	~	N	~	~	N	7	~	~	~
454	235	329	335	335	382	433	502	591	731	783	1067	1095	1174	2105	2896
68.1	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
39.5	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

ALIGNMENTS

glycinin chain A7 - soybean

91ycinin chain A7 - soybean

NyAlternate names: seed storage protein

Species Glycinne max (soybean)

C;Species Glycinne max (soybean)

C;Species Glycinne max (soybean)

C;Accession: JA0152

Blat. Sci. 189-195, 198

A;Ragawa, H.; Hrano, H.

A;Reference number: JA0152

A;Reference number: JA0152

A;Accession: JA0152

Gaps ö Query Match 100.0%; Score 58; DB 2; Length 212; Best Local Similarity 100.0%; Pred. No. 0.047; Matches 9; Conservative 0; Mismatches 0; Indels

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29 IPPGVPYWT 37

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1 IPPGVPYWT

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Glycinin G4 precursor - soybean (Species: Glycine max (soybean) (Species: Glycine max (soybean) (Species: Glycine max (soybean) (Space: State) (Space: Space: S

A,Molecule type: DNA A,Residues: 1-560 <NIE> A,Cross-references: UNIPROT:Q9S9D0

A, Experimental source: variety Dare C, Genetics:

A;Gene: Gy4 C;Superfamily: glycinin

C:Reywords: storage protein F;1-23/Domain: signal sequence #status predicted <SIG> F;24-560/Product: glycinin G4 #status predicted <MAT>

Gape ö Query Match
100.0%; Score 58; DB 2; Length 560;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 9; Conservative 0; Mismatches 0; Indels

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Gaps

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A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-136 <HEL>
A;Cross-references: UNIPROT:Q43672; EMBL;Z26487; NID:g403333; PIDN:CAA81261.1; PID:g4033
C;Genetics:
A;Gene: LelB161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C.Species: Vicia faba (fava bean)
C.Species: Vicia faba (fava bean)
C.Species: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 09-Jul-2004
C.SAccession: 846503; 837241
R.Heim, U.; Baeumlein, H.; Wobus, U.
R.Heim, U.; Baeumlein, S., 131-135, 1994
A;Title: The legumin gene family: a reconstructed Vicia faba legumin gene encoding a high-A;Reference number: 846503; WUID:94272010; PMID:8003694
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A, Cross-references: UNIPROT: 043673; EMBL: Z26489; NID: 9403335; PIDN: CAA81262.1; PID: 94033
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       probable legumin B - garden pea
C;Species: Pisum sativum (garden pea)
C;Date: 23-Apr-1999 #sequence_revision 23-Apr-1999 #text_change 09-Jul-2004
C;Accession: T06453
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     R;Bown, D.P.
submitted to the EMBL Data Library, June 1992
A;Reference number: 21568
A;Accession: T166453
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Molecule type: mRNA
A;Residues: 1-566 < BOW>
A;Cross-references: UMTROT: O24294; EMBL:X67424; PIDN:CAA47809.1
A;Experimental source: cv. Feltham First
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 566;
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                                                                                                                                                                                                                                                                                                                                                                                                    0; Indels
                                                                                                                                                                                                                        A;Note: intron positions not resolved (incomplete sequence)
C;Superfamily: glycinin
C;Keywords: seed; storage protein
A; Reference number: S46503; MUID:94272010; PMID:8003694
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A,Status: preliminary; nucleic acid sequence not shown A,Molecule type: DNA
A,Residues: 1-564 <HE2>
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Pred. No. 0.042;
1; Mismatches
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88.9%; Pred. No. 0.19;
iive 1; Mismatches
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Best Local Similarity 88.9%;
Matches 8; Conservative 1
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Matches 8; Conservative
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142 IPPGIPYWT 150
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50 IPPGIPYWT 58
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Introns: 178/3; 439/3
C; Superfamily: glycinin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                legumin B - fava bean
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C;Superfamily
C;Keywords: 8
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                                                                                                                                                                                                                        Gycinin Gy4 precursor - soybean (cv. Forrest)
G;Species: Glycine max (soybean)
A;Variety: cv. Forrest
C;Species: Glycine max (soybean)
A;Variety: cv. Forrest
C;Date: 04-Dec-1992 #sequence_revision 04-Dec-1992 #text_change 09-Jul-2004
C;Accession: S20946
R;Xue, X.T.; Xu, M.L.; Shen, W.; Zhuang, N.L.; Hu, W.M.; Shen, S.C.
Plant Mol. Biol. 18, 897-908, 1992
A;Title: Characterization of a Gy4 glycinin gene from soybean Glycine max cv. Forrest.
A;Reference number: S20946; MUD:92256811; PMID:1316192
A;Recession: S20946
A;Recession: S20946; MUJ:92256811; PMID:1316192
A;Reperimental source: cv. Forrest
C;Genetics:
A;Genetics: Gy4
A;Introns: 97/1; 184/3; 433/3
C;Superfamily: glycinin
C;Superfamily: signal sequence #status predicted <SIG>F;24-562/Product: glycinin Gy4 #status predicted <MAT>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-563 «XUE»
A;Cross-references: UNIPROT:Q39921; EMBL:X86970; NID:g806555; PIDN:CAA60533.1; PID:g8065
C;Superfamily: glycinin
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R;Heim, U.; Baeumlein, H.; Wobus, U.
Plant Mol. Biol. 25, 131-135, 1594
A;Title: The legumin gene family: a reconstructed Vicia faba legumin gene encoding a hig
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C;Species: Glycine max (soybean)
C;Date: 08-Jul-1995 #sequence_revision 21-Jul-1995 #text_change 09-Jul-2004
C;Accession: S54802
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C;Species: Vicia faba (fava bean)
C;Date: 16-Jul-1999 #sequence_revision 16-Jul-1999 #text_change 09-Jul-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Superfamily: glycinin
;Keywords: seed; storage protein
;1-23/Domain: signal sequence #status predicted <SIG>
;24-562/Product: glycinin Gy4 #status predicted <MAT>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C;Accession: S54802
R;Xue, Z.
Bubmitted to the EMBL Data Library, May 1995
A;Reference number: S54802
A;Accession: S54802
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Best Local Similarity 100.v
Log 9; Conservative
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                                   1 IPPGVPYWT
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Gaps

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legumin B4 precursor - fava bean
C;Species: Vicia faba (fava bean)
C;Species: Vicia faba (fava bean)
C;Species: Vicia faba (fava bean)
C;Date: 30-Jun-1988 #sequence_revision 30-Jun-1988 #text_change 13-Nov-1998
C;Accession: A24942
R;Bacunlein, H.; Wobus, U.; Pustell, J.; Kafatos, F.C.
Nucleic Acids Res. 14, 2707-2720, 1986
A;Title: The legumin gene family: structure of a B type gene of Vicia faba and a possib
A;Reference number: A24942; MUID:86176760; PMID:3960730
                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Molecule type: DNA
A;Residues: 1-484 <BAE>
A;Residues: 1-484 <BAE>
C;Note: the authors translated the codon GTT for residue 188 as Gly and CAC for residue C;Superfamily: glycinin F;1-20/Domain: signal sequence #status predicted <SIG>P;21-483/Product: legumin B4 #status predicted <MAT>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Gross references: UNIPROT:Q41703; EMBL:232796; NID:g479103; PIDN:CAA83674.1; PID:g479
C;Superfamily: glycinin
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R;Nong, V.; Becker, C.; Muentz, K.
Rbubnitted to the EMBL Data Library, April 1994
A;Description: Cloning and heterologous expression of cDNAs encoding legumins of vetch A;Reference number: 544266
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06-Feb-1995 #text_change 09-Jul-2004
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Pred. No. 2.9;
1; Mismatches 1; Indels
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     Indels
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Pred. No. 2.9;
1; Mismatches
     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   legumin B precursor - spring vetch
C;Species: Vicia sativa (spring vetch,
C;Date: 06-Feb-1995 #sequence_revision
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      84.5%;
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Matches 7; Conservative
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       7, Conservative
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                                                                              147 IPSGIPYWT 155
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A,Molecule type: mRNA
A,Residues: 1-485 <NON>
                                                 1 IPPGVPYWT
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       Matches
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C;Species: Glycine max (soybean)
C;Date: 28-Feb-1986 #sequence_revision 31-Mar-1988 #text_change 09-Jul-2004
C;Date: 28-Feb-1986 #sequence_revision 31-Mar-1988 #text_change 09-Jul-2004
C;Accession: A91145; A9133; A03148; A25207; A27253
R;Momma, T.; Negoro, T.; Hirano, H.; Matsumoto, A.; Udaka, K.; Fukazawa, C.
Eur. J. Biochem. 149, 491-496, 1985
A;Title: Glycinin A54483 mRNA: cDNA cloning and nucleotide sequencing of a splitting stc
A;Reference number: A91145; MUID:8523642; PMID:2988947
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C.Comment: Acidic (A5 and A4) and basic (B1) components of this glycinin subunit are syngulfide bond, that is thought to be noncovalently associated with the A4 chain. C.Superfamily: 91yvcinin (2.Superfamily: 91yvcinin) (2.Superfamily: 91yvcinin) (2.Superfamily: 91yvcinin) (3.Superfamily: 91yvcinin, A5 chain #status predicted (SIG) (5.1-23/Domain: 8ignal sequence #status predicted (SIG) (5.1-20)Product: 91ycinin, A5 chain #status predicted (GA3) (5.378-562/Product: 91ycinin, A9 chain #status predicted (GA3) (5.378-562/Product: 91ycinin, B3 chain #status predicted (GB3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A Molecule type: protein
A;Residues: 24-28, F',30-81,'L',83-85,'L',87-93,'V',95-100,'I',102,'M',104,'F',106-116,'
A;Residues: 24-28, F',30-81,'L',83-85,'L',87-93,'V',95-100,'I',102,'M',104,'F',106-116,'
A;Roperimental source: cv. Bonminori
A;Roperimental of the A4 chain, including the amino end, were sequenced
C;Comment: The source of this protein was cotyledon tissue taken from seeds at the middl
C;Comment: The glycinin molecule, the major seed storage protein of soybean, is composed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A, Experimental source: cv. Bonminori
A, Note: the authors translated the codon TCA for residue 86 as Leu, GAC for residue 145
R, Hirano, H.; Fukazawa, C.; Harada, K.
FEBS Lett. 181, 124-128, 1985
A,Title: The primary structures of the A4 and A5 subunits are highly homologous to that
A, Reference number: A91333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Residues: 1.562 <MOM>
A;Cross-references: UNIPROT:P02858; GB:X02626; NID:918628; PIDN:CAA26478.1; PID:9732706
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
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A;Residues: 1-290 <HOR>
C;Superfamily: glycinin
C;Keywords: seed; storage protein
F;1-20/Domain: signal sequence #status predicted <SIG>
F;21-268/Product: legumin type B alpha chain #status predicted <MAT>
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77.8%;
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Best Local Similarity 88.9
Matches 8; Conservative
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                                       144 IPPGIPYWT 152
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Best Local Similarity
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Matches 8; Conservative
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time : 23.9375 secs
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A; Accession: T40893
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A, Gene: SPDB:SPCC1259.04
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 IPPGVPYWT
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A; Introns: 47/2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         legumin B LegJ precursor - garden pea
NyAlternate names: minor legumin LegJ
Syspecies is 18um sativum (garden pea)
CySpecies: 18um sativum (garden pea)
CySpecies: 180-58p-1889 #sequence_revision 30-5ep-1989 #text_change 09-Jul-2004
CyAccession: 500336
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Cispecies Glycine max (soybean)
Cjoate: 31-Mar-1988 #sequence_resision 31-Mar-1988 #text_change 09-Jul-2004
CjAccession: A92524; S11005; A05083; A22615
R;Fukazawa, C:; Momma, T.; Hirano, H.; Harada, K.; Udaka, K.
A; Biol. Chem. 260, 6234-6239; 1985
A;Title: Glycinin A384 mRNA; cloning and sequencing of double-stranded cDNA complementar
A;Reference number: A92524; MUID:85207609; PMID:3838983
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A, Molecule type: mRNA
A, Molecule type: mRNA
A, Residues: 1-516 < FUKA.
A, Residues: 1-516 < FUKA.
A, Fresidues: 1-516 < FUKA.
A, Fresidues: 1-516 < FUKA.
A, Experimental source: cv. Bonminori
R, Hirano, H.; Fukazawa, C.; Harada, K.
A, Fither Chem. 259, 14371-14377, 1984
A, Fithe: The complete amino acid sequence of the A-3 subunit of the glycinin seed storag A, Reference number: A92465; MUID:85054904; PMID:6542104
A, Fontents: annotation
A, Note: the sequence reported is very different from that shown
R, Nicleisen, N.C.; Dickinson, C.D.; Cho, T.J.; Thanh, V.H.; Scallon, B.J.; Fischer, R.L.; Plant Cell 1, 313-328, 1989
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F;1-22/Domain: signal sequence #status predicted <SIG>
F;23-322/Product: legumin B alpha chain #status experimental <ACH>
F;323-503/Product: legumin B beta chain #status experimental <BCH>
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                                                                                                                                                                                                                                                  Score 49; DB Pred. No. 3; 1; Mismatches
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                              A;Cross-references: EMBL:X67423
C;Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 77.0
The Conservative
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Best Local Similarity 77.8
Matches 7; Conservative
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                                                                                                                                    A;Introns: 183/3; 375/3
C;Superfamily: glycinin
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A, Residues: 1-500 <THO>
                                                                                                      A;Start codon: GTG
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A;Cross-references: UNIPROT:094704; EMBL:AL034564; PIDN:CAA22542.1; GSPDB:GN00068; SPDB:
A;Experimental source: strain 972h-; cosmid c1259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ô
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C.) Species: Schizosaccharomyces pombe
C.)Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 09-Jul-2004
C.)Accession: T40893
S.)Wood, V.; Rajandream, M.A.; Barrell, B.G.; Bothe, G.; Pohl, T.
submitted to the EMBL Data Library, December 1998
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A,Title: Characterization of the glycinin gene family in soybean. A,Reference number: S10851, MUID:92393391; PMID:2485233
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              74.1%; Score 43; DB 2; Length 168; 85.7%; Pred. No. 8.7; ive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1; Indels
                                                                                                                                                                                                                        A.Gene: Gy5
C.Superfamily: glycinin
C.Keywords: seed; storage protein
F.1-24/Domain: signal sequence #status predicted <SIG>
F.25-344/Froduct: glycinin chain A3 #status predicted <GLA>
F.345-516/Product: glycinin chain B4 #status predicted <GLB>
F.109-351/Disulfide bonds: #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  82.8%; Score 48; DB 1; 88.9%; Pred. No. 4.5; ative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-168 <WOO>
                                                               A, Accession: S11005
A, Molecule type: DNA
A, Residues: 1-516 <NIE>
A, Experimental source: variety Forrest
C, Genetics:
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